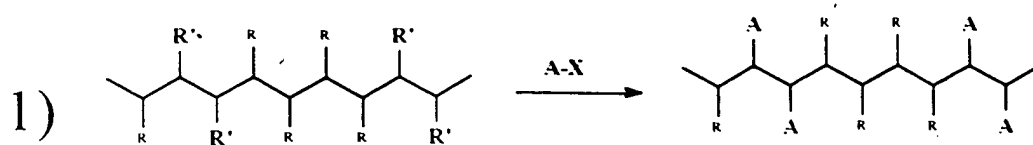
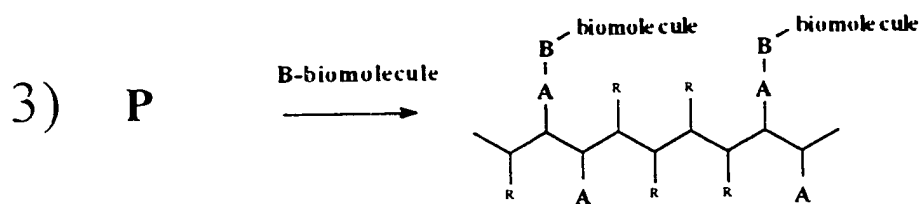
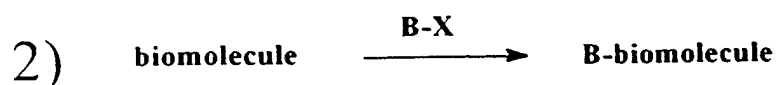


Figure 1



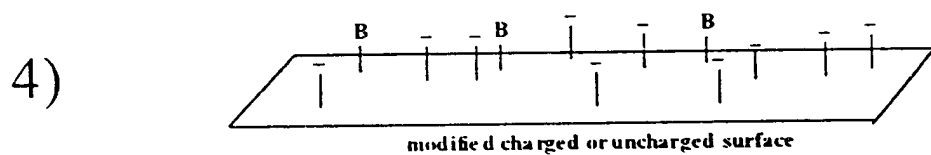
where R' is the same or  
different than R

**P**

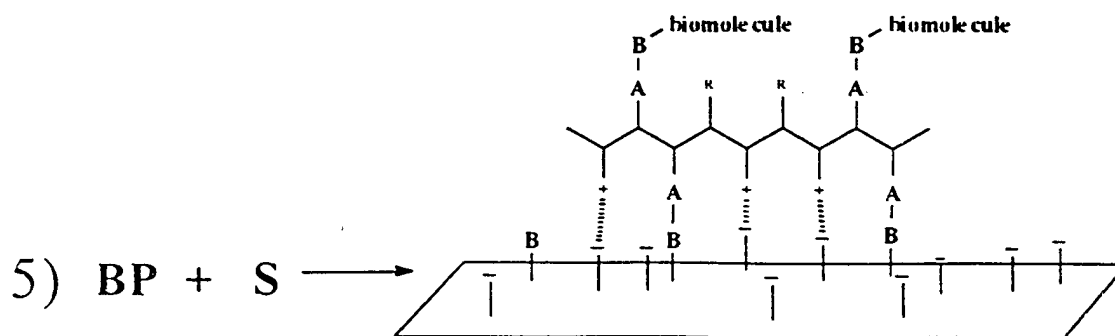


**BP**

biomolecule/polymer conjugate



**S**



**BPS**

biopolymer/polymer/surface ternary system

Figure 2

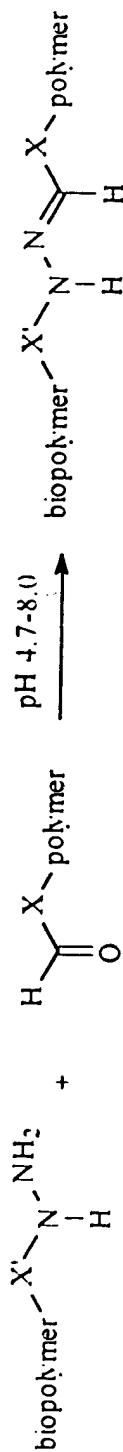
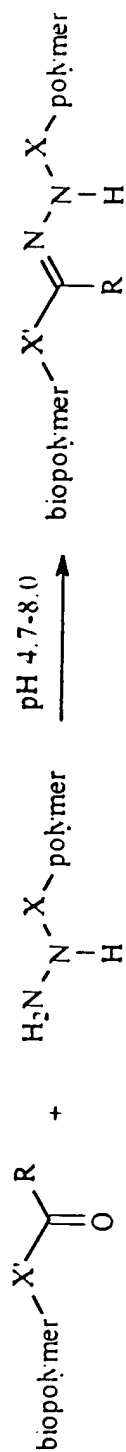
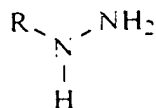
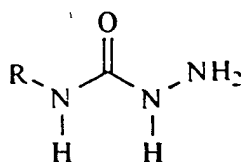


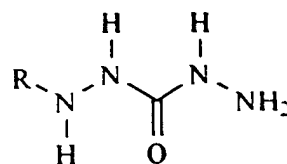
Figure 3



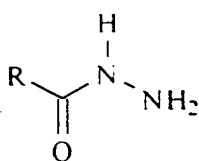
hydrazine



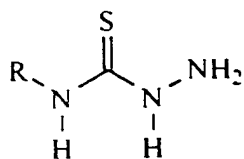
semicarbazide



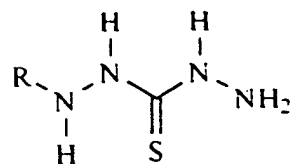
carbazine



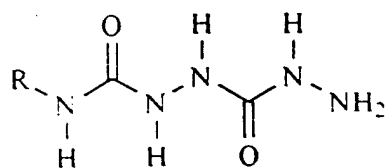
hydrazide



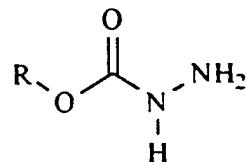
thiosemicarbazide



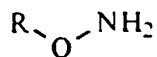
thiocarbazine



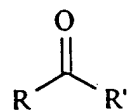
carbonic acid dihydrazine



hydrazine carboxylate



aminoxy



R = alkyl, aromatic or heteroaromatic group

R' = H or straight, branched or cyclic alkyl moiety  
or aromatic or heteroaromatic moiety

carbonyl derivatives

Figure 4

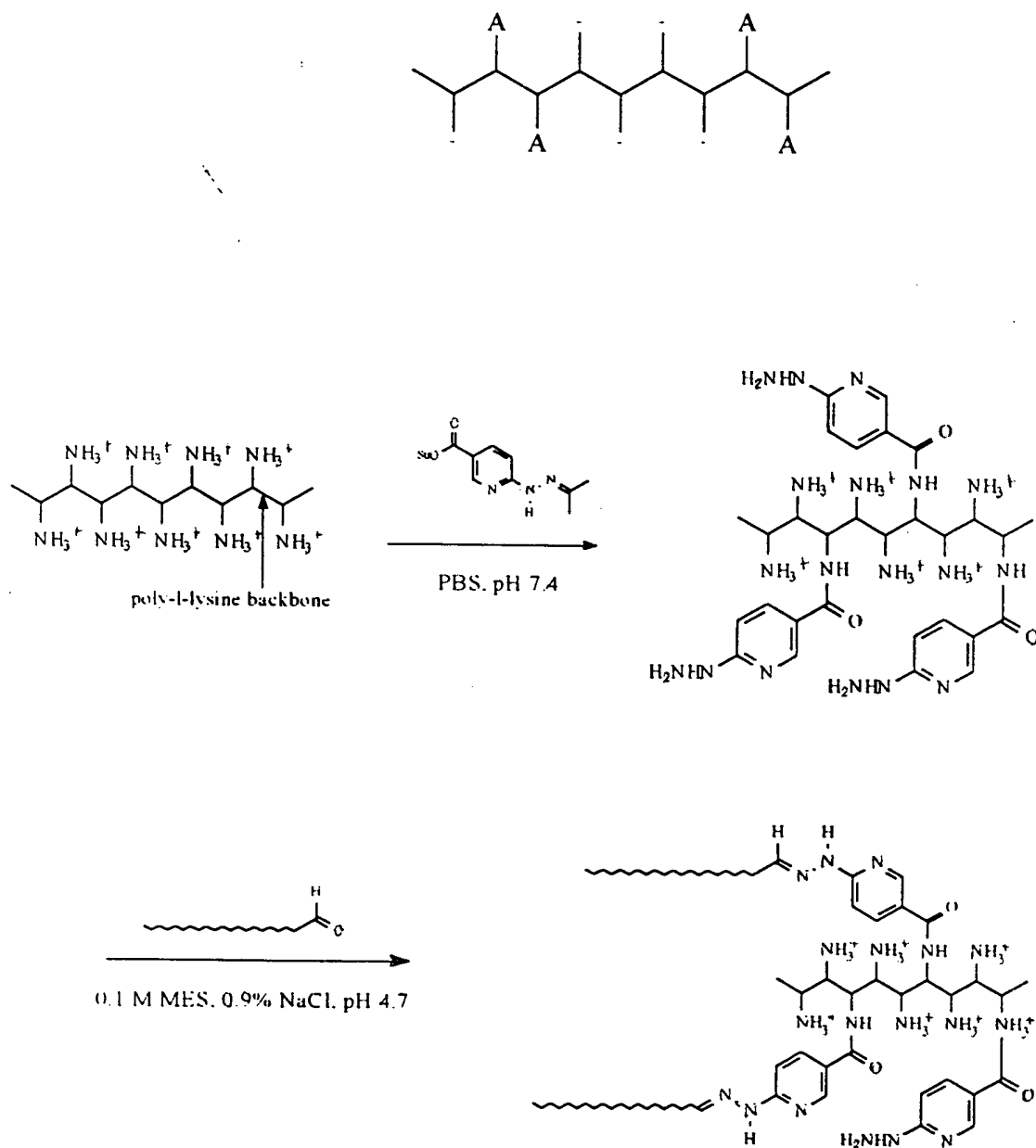


Figure 5

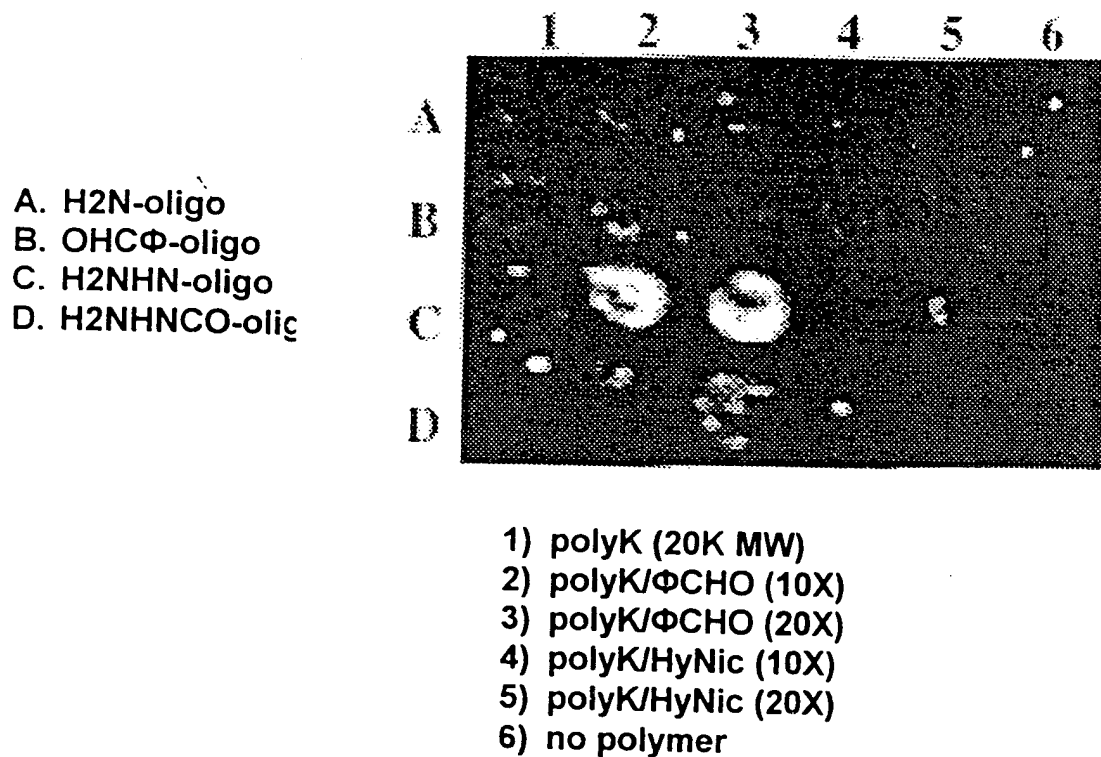
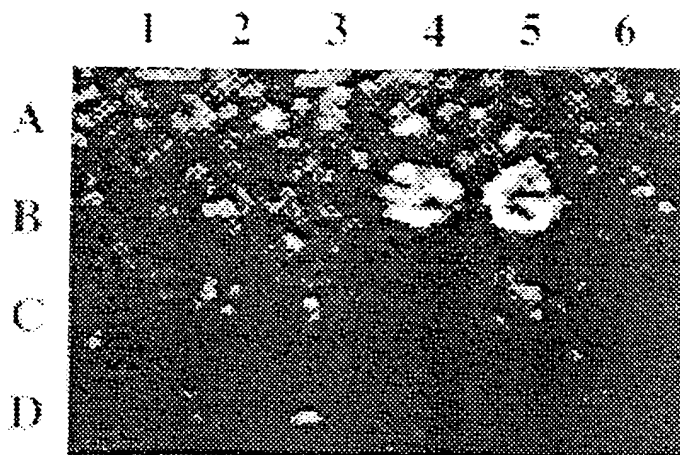


Figure X: Matrix experiment (see Example 2) demonstrating the covalent nature of the immobilization of a 5'-hydrazino oligo//sCHO/poly-L-lysine (polyK) conjugate on a amino modified glass slide following hybridization to its fluorescent complement.

1005027-043402

Figure 6

- A. H<sub>2</sub>N-oligo  
B. OHC-oligo  
C. H<sub>2</sub>NHN-oligo  
D. H<sub>2</sub>NHNCO-oligo



- 1) polyK (20K MW)  
2) polyK/sCHO (10X)  
3) polyK/sCHO (20X)  
4) polyK/HyNic (10X)  
5) polyK/HyNic (20X)  
6) no polymer

204240-420500T

Figure 7

